

542 777

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



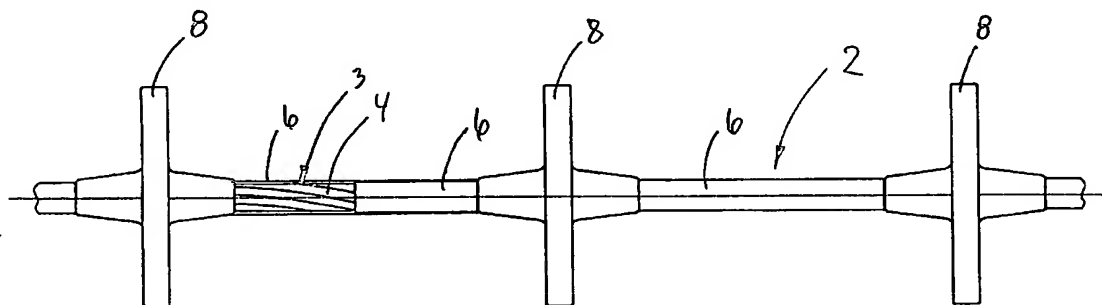
(43) International Publication Date
5 August 2004 (05.08.2004)

PCT

(10) International Publication Number
WO 2004/065269 A1

- (51) International Patent Classification⁷: **B65G 19/14**, 19/24
- (21) International Application Number:
PCT/DK2004/000029
- (22) International Filing Date: 20 January 2004 (20.01.2004)
- (25) Filing Language: Danish
- (26) Publication Language: English
- (30) Priority Data:
PA 2003 00049 20 January 2003 (20.01.2003) DK
- (71) Applicant (for all designated States except US): **DALTEC A/S** [DK/DK]; Tybovej 1, DK-6040 Egtved (DK).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **DALL, Thøge**, Hellesø [DK/DK]; Aftensang 22, DK-6040 Egtved (DK).
- (74) Agent: **PATRADE A/S**; Fredens Torv 3A, DK-8000 Aarhus C (DK).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CONVEYING WIRE



(57) Abstract: Conveying wire (2) with disc-shaped conveying members (8) for use in endless tube conveyor systems, the wire (3) consisting of a number of twisted strands (4) that each are made of thin threads or fibres, and including an outer jacket (6) to which the said conveying members (8) are fastened directly by injection moulding, where the said outer jacket (6) consists of a polymer with a melting temperature which is lower than the melting temperature of the plastic material from which the conveying members are injection moulded, and where the wire (3) e.g. is made as a balanced (torsionally neutral) wire consisting of at least three strands that each are made of very thin synthetic fibres which are individually surface treated with a polymer, providing great bending wearability to the fibres and good adhesion to the outer jacket (6) which consists of a polymer. The fact that the melting temperature of the disc material is higher than the melting temperature of jacket material entails hence a local softening of the outer jacket locally at the conveying members, so that an almost optimally good connection between the conveying members and the wire via the outer jacket is established.



WO 2004/065269 A1